

SEQUENCE LISTING

<110> TAM, CHERK SHING

<120> BONE STIMULATING FACTOR

<130> 079997/0124

<140> 09/323,854

<141> 1999-06-02

<150> PCT/CA97/00967

<151> 1997-12-11

<150> 08/763,458

<151> 1996-12-11

<150> PCT/CA96/00401

<151> 1996-06-07

<160> 63

<170> PatentIn Ver. 2.1

<210> 1

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide
derived from Rattus sp.

<400> 1

Gly	Ile	Gly	Lys	Arg	Thr	Asn	Glu	His	Thr	Ala	Asp	Cys	Lys	Ile	Lys
1				5					10					15	

Pro	Asn	Thr	Leu	His	Lys	Lys	Ala	Ala	Glu	Thr	Leu	Met	Val	Leu	Asp
			20					25					30		

Gln	Asn	Gln	Pro
			35

<210> 2

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide
derived from Rattus sp.

<220>

<221> MOD_RES

<222> (1)

<223> N-acetyl glycine

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<400> 2
Xaa Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
1 5 10 15

Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp
20 25 30

Gln Asn Gln Pro
35

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<210> 3
<211> 36
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
      derived from Rattus sp.
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<400> 3
Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Ala Lys Ile Lys
1 5 10 15

Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp
20 25 30

Gln Asn Gln Pro
35

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<210> 4
<211> 30
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
derived from Rattus sp.

<400> 4
Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
1 5 10 15

Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val
20 25 30

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<210> 5
<211> 25
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
derived from Rattus sp.

<400> 5
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
 1 5 10 15

Pro Asn Thr Leu His Lys Lys Ala Ala
 20 25

<210> 6
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 6
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
 1 5 10 15

Pro Asn Thr Leu
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<210> 7
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 7
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile
 1 5 10 15

<210> 8
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 8
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys
 1 5 10

<210> 9
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 9
 Arg Thr Asn Glu His Thr Ala Asp Cys Lys
 1 5 10

<210> 10
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 10
 Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln Asn Gln
 1 5 10 15

<210> 11
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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 derived from Rattus sp.

<400> 11
 Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln Asn
 1 5 10 15

<210> 12
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
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 derived from Rattus sp.

<400> 12
 Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln
 1 5 10

<210> 13
 <211> 13
 <212> PRT
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<220>
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<400> 13
Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp
1 5 10

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<210> 14
<211> 23
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
      derived from Rattus sp.
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<400> 14
Thr Ala Asp Cys Lys Ile Lys Pro Asn Thr Leu His Lys Lys Ala Ala
1 5 10 15

Glu Thr Leu Met Val Leu Asp
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<210> 15
<211> 30
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
      derived from Rattus sp.
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<400> 15
Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys Pro Asn Thr Leu
1 5 10 15

His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp Gln Asn
20 25 30

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<210> 16
<211> 11
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
      derived from Rattus sp.
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<400> 16
Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile
      1                      5              10

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<210>	17
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<212>	DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic DNA derived
from Rattus sp.

<220>

<221> CDS

<222> (1)..(90)

<400> 17

ggg	atc	gga	aaa	cga	aca	aat	gaa	cat	acg	gca	gat	tgt	aaa	att	aaa	48
Gly	Ile	Gly	Lys	Arg	Thr	Asn	Glu	His	Thr	Ala	Asp	Cys	Lys	Ile	Lys	
1				5					10					15		

ccg	aac	acc	ttg	cat	aaa	aaa	gct	gca	gag	act	tta	atg	gtc			90
Pro	Asn	Thr	Leu	His	Lys	Lys	Ala	Ala	Glu	Thr	Leu	Met	Val			
			20				25						30			

<210> 18

<211> 75

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA derived
from Rattus sp.

<220>

<221> CDS

<222> (1)..(75)

<400> 18

ggg	atc	gga	aaa	cga	aca	aat	gaa	cat	acg	gca	gat	tgt	aaa	att	aaa	48
Gly	Ile	Gly	Lys	Arg	Thr	Asn	Glu	His	Thr	Ala	Asp	Cys	Lys	Ile	Lys	
1				5					10					15		

ccg	aac	acc	ttg	cat	aaa	aaa	gct	gca								75
Pro	Asn	Thr	Leu	His	Lys	Lys	Ala	Ala								
			20				25									

<210> 19

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA derived
from Rattus sp.

<220>

<221> CDS

<222> (1)..(60)

<400> 19
 ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att aaa 48
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
 1 5 10 15

ccg aac acc ttg
 Pro Asn Thr Leu
 20

60

<210> 20
 <211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(45)

<400> 20
 ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att 45
 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile
 1 5 10 15

<210> 21
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(42)

<400> 21
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 Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys
 1 5 10

<210> 22
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<220>

<221> CDS

<222> (1)..(30)

<400> 22

cga aca aat gaa cat acg gca gat tgt aaa
Arg Thr Asn Glu His Thr Ala Asp Cys Lys
1 5 10

30

<210> 23

<211> 108

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA derived
from Rattus sp.

<220>

<221> CDS

<222> (1)..(108)

<400> 23

ggg atc gga aaa cga aca aat gaa cat acg gca gat tgt aaa att aaa 48
Gly Ile Gly Lys Arg Thr Asn Glu His Thr Ala Asp Cys Lys Ile Lys
1 5 10 15

ccg aac acc ttg cat aaa aaa gct gca gag act tta atg gtc ctt gac 96
Pro Asn Thr Leu His Lys Lys Ala Ala Glu Thr Leu Met Val Leu Asp
20 25 30

caa aat gaa cca
Gln Asn Glu Pro
35

108

<210> 24

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide
derived from Rattus sp.

<220>

<221> MOD_RES

<222> (1)

<223> N-acetyl arginine

<220>

<221> MOD_RES

<222> (10)

<223> lysinamide

<400> 24

Xaa Thr Asn Glu His Thr Ala Asp Cys Xaa
1 5 10

<210> 25
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<220>
 <221> MOD_RES
 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<400> 25
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 1 5 10

<210> 26
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<220>
 <221> MOD_RES
 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<400> 26
 Xaa Thr Gln Glu His Thr Ala Glu Cys Xaa
 1 5 10

<210> 27
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<220>
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 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<400> 27
 Xaa Thr Gln Glu His Thr Ala Asp Cys Xaa
 1 5 10

<210> 28
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 28
 Arg Thr Asn Glu His Thr Ala Glu Cys Lys
 1 5 10

<210> 29
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 29
 Arg Thr Gln Glu His Thr Ala Glu Cys Lys
 1 5 10

<210> 30
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 30
 Arg Thr Gln Glu His Thr Ala Asp Cys Lys
 1 5 10

<210> 31
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(30)

<400> 31
 cga aca aat gaa cat acg gca gaa tgt aaa
 Arg Thr Asn Glu His Thr Ala Glu Cys Lys
 1 5 10

30

<210> 32
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(30)

<400> 32
 cga aca caa gaa cat acg gca gaa tgt aaa
 Arg Thr Gln Glu His Thr Ala Glu Cys Lys
 1 5 10

30

<210> 33
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(30)

<400> 33
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 Arg Thr Gln Glu His Thr Ala Asp Cys Lys
 1 5 10

30

<210> 34

<211> 10
 <212> PRT
 <213> Artificial Sequence

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 <223> N-acetyl alanine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 34
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 1 5 10

<210> 35
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 35
 Xaa Thr Gln Ala His Thr Ala Asp Cys Xaa
 1 5 10

<210> 36
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> N-acetyl arginine

<220>

<221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 36
 Xaa Thr Asn Glu Ala Thr Ala Asp Cys Xaa
 1 5 10

<210> 37
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 37
 Xaa Thr Asn Glu His Thr Ala Ala Cys Xaa
 1 5 10

<210> 38
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> alaninamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 38
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 1 5 10

<210> 39
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 39
 Xaa Ala Asn Glu His Thr Ala Asp Cys Xaa
 1 5 10

<210> 40
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 40
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 1 5 10

<210> 41
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 41
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 1 5 10

<210> 42
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 42
 Xaa Thr Asn Glu His Thr Gly Asp Cys Xaa
 1 5 10

<210> 43
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 43
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 1 5 10

<210> 44
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 44
 Xaa Thr Gln Glu His Thr Ala Glu Ala Xaa
 1 5 10

<210> 45
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 45
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 1 5 10

<210> 46

<211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)
 <223> N-acetyl arginine

<220>
 <221> MOD_RES
 <222> (10)
 <223> lysinamide

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 46
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 1 5 10

<210> 47
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 47
 Arg Ala Asn Glu His Thr Ala Asp Cys Lys
 1 5 10

<210> 48
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<400> 48
 Arg Thr Ala Glu His Thr Ala Asp Cys Lys
 1 5 10

<210> 49
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

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<220>
<223> Description of Artificial Sequence: Synthetic polypeptide
      derived from Rattus sp.
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<400> 53
 Arg Thr Gln Glu His Thr Ala Glu Tyr Lys
 1 5 10

<210> 54
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<400> 54
 Arg Thr Gln Glu His Thr Ala Glu Ser Lys
 1 5 10

<210> 55
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(30)

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 Arg Ala Asn Glu His Thr Ala Asp Cys Lys
 1 5 10

30

<210> 56
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(30)

<400> 56
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 Arg Thr Ala Glu His Thr Ala Asp Cys Lys
 1 5 10

30

<210> 57

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<220>  
<221> CDS  
<222> (1) .. (30)
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<220> Description of Artificial Sequence: Synthetic polypeptide
<223> derived from Rattus sp.

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Arg Thr Asn Glu His Thr Gly Asp Cys Lys
      1                      5                      10
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30

<220> Description of Artificial Sequence: Synthetic polypeptide
<223> derived from Rattus sp.

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<400> 59
cga aca aat gaa cat aca gca gat tat aaa
Arg Thr Asn Glu His Thr Ala Asp Tyr Lys
      1                      5                      10
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30

$$\begin{aligned} \langle 210 \rangle & 60 \\ \langle 211 \rangle & 30 \end{aligned}$$

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(30)

<400> 60 30
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 Arg Thr Gln Glu His Thr Ala Glu Ala Lys
 1 5 10

<210> 61
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide
 derived from Rattus sp.

<220>
 <221> CDS
 <222> (1)..(30)

<400> 61 30
 cga aca caa gaa cat aca gca gaa tat aaa
 Arg Thr Gln Glu His Thr Ala Glu Tyr Lys
 1 5 10

<210> 62
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> CDS
 <222> (1)..(30)

<220>
 <223> Description of Artificial Sequence: Synthetic DNA derived
 from Rattus sp.

<400> 62 30
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 Arg Thr Gln Glu His Thr Ala Glu Ser Lys
 1 5 10

<210> 63
 <211> 10
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus

<220>

<221> MOD_RES

<222> (2)

<223> t or a

<220>

<221> MOD_RES

<222> (3)

<223> n, q or a

<220>

<221> MOD_RES

<222> (6)

<223> t or a

<220>

<221> MOD_RES

<222> (7)

<223> g or a

<220>

<221> MOD_RES

<222> (8)

<223> e or d

<220>

<221> MOD_RES

<222> (9)

<223> c, y, a or s

<400> 63

Arg Xaa Xaa Glu His Xaa Xaa Xaa Xaa Lys

1

5

10